MANOYLOV, S.Ye.; CHAMIN, N.N.; DASHKEVICH, L.B.; VOLOKHONSKIY, A.G.; PUSTOSHKIN, G.I.

Synthesis of some derivatives of adenine. Trudy Len.khim.-farm. inst. no.13:49-54 '62. (MIRA 15:10)

1. Kafedra biokhimii (zav. prof. S.Ye.Manoylov) Leningradskogo khimiko-farmatsevticheskogo instituta.
(ADENINE)

L 07678-67 EWT(m)/T/EWP(t)/ETI/EWI(k) IJP(c) JD

ACC NR: AR6020939 SOURCE CODE: UR/0137/66/000/002/V061/V061

42
41
13

AUTHOR: Shcherbakov, A. I.; Nikulin, A. A.; Okorokov, G. N.; Bochkov, D. A.; Boyarshinov, V. A.; Volokhonskiy, L. A.; Polyakov, A. I.

TITLE: The effect of the electric power parameters on a vacuum arc furnace on ingot crystallization conditions

SOURCE: Ref. zh. Metallurg, Abs. 2V396

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 45, 1965, 34-37

TOPIC TAGS: vacuum arc furnace, alternating magnetic field, constant magnetic field

TRANSLATION: An investigation was made of the effect of electric parameters of a vacuum arc furnace on crystallization conditions of an ingot, as well as the possibility of influencing the crystallization process with the use of constant and alternating magnetic fields. An analytic and experimental correlation between these parameters and the crystallization of an ingot was determined. The relative depth h/D of a liquid wall was equivalent for molds of different dimensions by maintaining the equality I/D = constant. The value I/D suitable for a metal with a small 2-phase region extension may serve as the criterion for selection of the electrical melting cycle. For a metal with an extended 2-phase region it is necessary to decrease the ingot diameter and to decrease the operating current as much as possible in order to prevent segrega-

UDC: 621.365.22-982.001.5

Card 1/2

L 44578-67

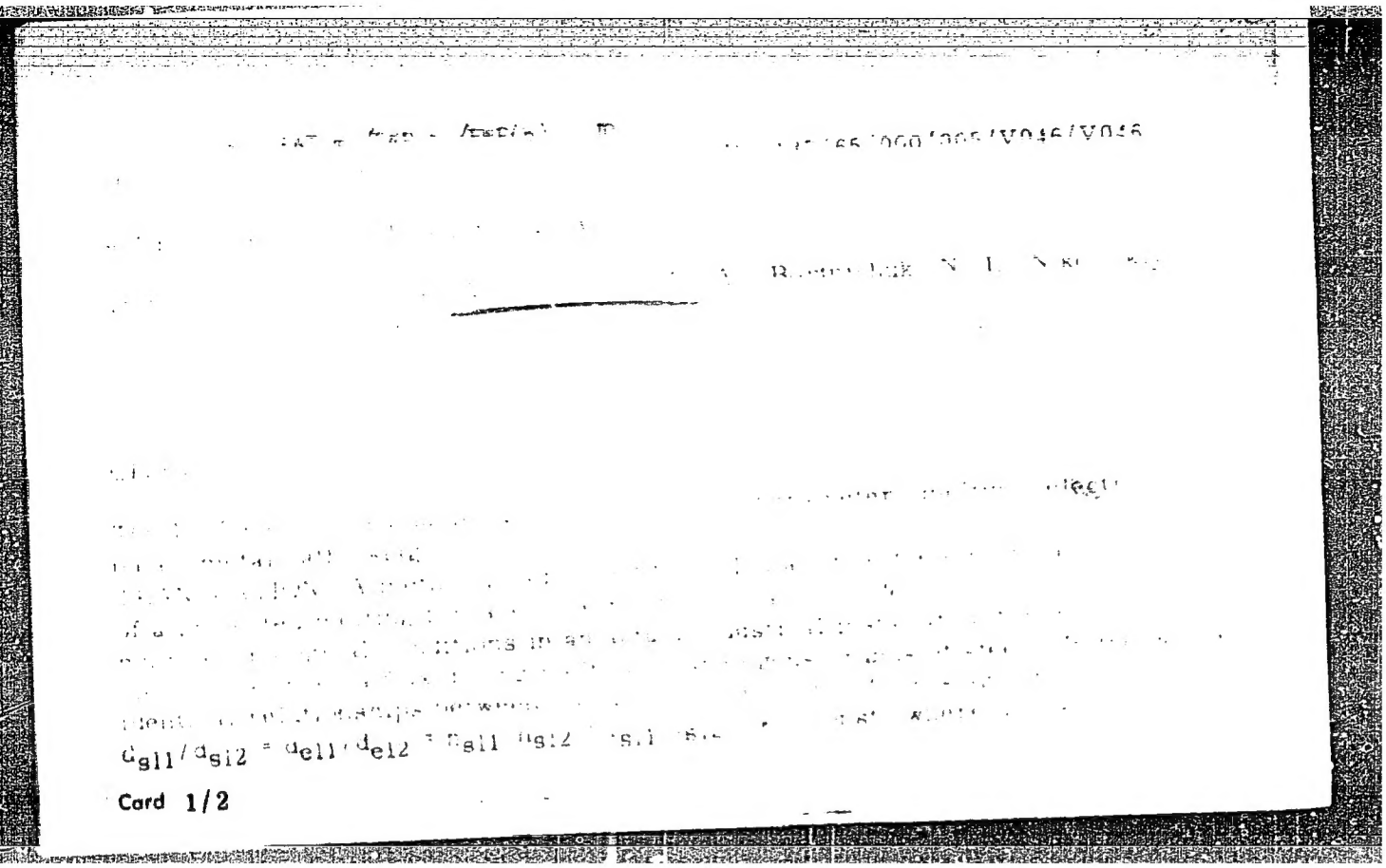
ACC NR: AR6020939

tion defects. The use of an alternating magnetic field prevents structural defects, characteristic of ingots melted in a constant magnetic field, and is a promising method for arc stabilization during vacuum arc melting. 3 figures. G. Lyubimova.

SUB CODE: 13, 20

fv

Card 2/2



$d_{gll}/d_{gl2} = d_{ell}/d_{el2}$

Card 1/2

L 57527-65

ACCESSION NR: AR5015150

ter of the bath, d_{el} is the diameter of the electrode, h_{sl} is the total depth of the bath, l_{sl} is the distance between the face of the electrode and the surface of the metal (here and in what follows, subscripts 1 and 2 refer respectively to the projected and the actual furnaces). The power, the resistance of the slag bath, and the working current of the projected furnace are determined by the formula

$$P_1 = kP_2;\ R_1 = \frac{1}{k} R_2;\ I_1 = k \cdot I_2.$$

The pressure drop between the face of the electrode and the surface is a constant quantity and is determined by the formula $U_{sl} = I_1 \cdot R_1 = I_2 \cdot R_2 = \text{constant}$.

(from R. Zh. Elektrotekhnika)

SUB CODE: MM, EE ENCL: 00

Card 2/2

L 16595-66 EWT(1)/EWT(m)/EWP(t) JD

ACC NR: AR5008998 UR/0137/65/000/00[illegible]/B013

AUTHOR: Volokhonskiy, L.A.; Yakobinets, A.B.; Bochkov, D.A. 39 B

ORG: none

CITED SOURCE: Elektrotermiya. Nauchno-Tekhn. Sb, 1964, Nr 37, p 26-28 21,44,55

TITLE: Power distribution of an arc discharge in a vacuum

SOURCE: Ref. zh. Metallurgiya, Abs. 2B86

TOPIC TAGS: arc furnace, smelting furnace, vacuum arc, arc discharge

ABSTRACT: The approximate stability of an arc power distribution in a vacuum was experimentally proved. In determining the power parameters for electric smelting furnaces, it is recommended to accept the Stokes' coefficient for power distribution in a cathode as equalling 0.48. The expediency of using solenoid for the elimination of leakage points and for possibly obtaining additional power on the tank mirror was proved experimentally.

SUB CODE: 09,13/ SUBM DATE: 00

Card 1/1 nst UDC: 669.187.046.5.621.365

L 27690-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AR6004305 SOURCE CODE: UR/0276/65/000/009/G009/G009

AUTHOR: Volokhonskiy, L. A.; Nikulin, A. A.; Bochkov, D. A.; Bortnichuk, N. I.

TITLE: Study of melting hydrodynamics in a vacuum arc furnace by the stimulating method

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9G75

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud., vyp. 1, 1965, 66-77

TOPIC TAGS: vacuum arc furnace, vacuum melting, hydrodynamics, molten metal, magnetic field, solenoid

ABSTRACT: The distribution of a current in the molten metal of a vacuum arc furnace is studied, and the forces responsible for the metal rotation: the vertical magnetic field of solenoid and the horizontal component of the arc current. The measurement of hydrodynamic pressures on the molten metal model permitted determination of their distribution along the bath diameter and depth and determination of the melt rotation rate. The most effective stirring of metal is observed in the zone of the anodic spot. Some redistribution of pressures and rates of rotation due to friction forces takes place. As far as the intensity of mixing in presence of a solenoid is concerned, the best effect is obtained when the current cable is attached to the upper edge of the crystallizer, in which case the horizontal component of the current has the highest magnitude. In melting steel tending to ghost, it is advisable to use

Card 1/2 UDC: 66.047.2: 621.365.2.001.5

L 27690-66

ACC NR: AR6004305 O

a bifilar cable with an attachment to the upper flange of the crystallizer. In this case, in the absence of a solenoid there is no rotation of the metal. It is possible to use a solenoid on a steel crystallizer. In designing them correction for the screening effect, which is determined by modeling, should be made. O. Prove

SUB CODE: 11/ SUBM DATE: none

Card 2/2 CC/

L 29534-66 EWT(m)/ EWP(t)/ETI JD

ACC NR: AR6004304 SOURCE CODE: UR/0276/65/000/009/G009/G009

18
B

AUTHOR: Volokhonskiy, L. A.

TITLE: Basic parameters and the heat balance in scalp melting * A

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 9G74

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud., vyp. 1, 1965, 89-101

TOPIC TAGS: ~~metallurgic furnace, arc furnace,~~ smelting furnace, METAL MELTING, HEAT BALANCE

ABSTRACT: As a result of heat process-analyses it was determined that the basic parameters in scalp melting* are the speed of melting, the overheating temperature and the change of the scalp thickness. The heat transfer coefficient on the surface of the phase separation is theoretically calculated and experimentally measured. In calculating parameters for furnace with a graphite crucible it is recommended that it be considered equal to 1500 kcal/m^{2}h C. The heat smelting balance of a working furnace is designed and verified. Based on this, a method of calculating electrofurnace parameters is worked out. O. Prove.

SUB CODE: 11/ SUBM DATE: none

* Prob

Card 1/1 LS

UDC: 621.745:621.365.2:66.04.82

VOLOKHONSKIY, L., kand.tekhn.nauk

Rotating sails. IUn.tekh. 7 no.9:34-35 S '62. (MIRA 16:6)
(Rotor ships)

VOLOKHONSKIY, L.Sh.

Theory of currents of shallow seas. Trudy GOIN no.74:3-32 '63. (MIRA 16:7)

(Ocean currents)

L 46001-66 EWT(m)/EWP(k)/EWP(t)/ETI JD

ACC NR: AR6028427 SOURCE CODE: UR/0137/66/000/005/V041/V041

AUTHOR: Bochkov, D. A.; Volokhonskiy, L. A.; Nikol'skiy, L. Ye.

TITLE: Simplified method for calculating the parameters of vacuum arc furnaces for melting rectangular ingots

SOURCE: Ref. zh. Metallurgiya, Abs. 5V261

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 48, 1965, 19-22

TOPIC TAGS: vacuum arc furnace, ingot, round ingot, energy parameter

ABSTRACT: A simplified procedure has been developed at the All-Union Scientific Research Institute of Electrothermal Equipment (VNIIETO) for calculating the power energy parameters of vacuum arc furnaces for round ingots. The method, which is based on the distribution constant of arc power between the cathode and anode, allows computation of arc power without compiling the heat balance of the ingot. D. Kashayeva. [Translation of abstract] [NT]

SUB CODE: 13/

Card 1/1 UDC: 669.187.2:621.365.22-982.001.5

L 31968-66 EWT(1) GW

ACC NR: AT6016352 (N) SOURCE CODE: UR/2634/65/000/087/0003/0031

AUTHOR: Volokhonskiy, L. Sh. 24 B+1

ORG: none

TITLE: Nonlinear dynamic problems of shallow seas 12

SOURCE: Moscow. Gosudarstvennyy okeanograficheskiy institut. Trudy, no. 87, 1965. L'dy i termika morey (Ice and thermal conditions of seas), 3-31

TOPIC TAGS: ocean dynamics, differential equation

ABSTRACT: Certain nonlinear dynamic problems of shallow seas have been investigated. An attempt was made to generalize from the method of sources with an addition to the problem of a joint determination of the velocity field and the nonhorizontality and mobility of the free surface of shallow seas. Differential equations determining the initial conditions were derived. Orig. art. has: 90 formulas. [NT]

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 028/ OTH REF: 006

Card 1/1 IC UDC: 517.947+532. 516+551.461.2+551.465

L 46776-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) JD/WW/JG

ACC NR: AR6014548 SOURCE CODE: UR/0196/65/000/011/N003/N003

35
13

AUTHOR: Volokhonskiy, L. A.; Nikulin, A. A.; Bochkov, D. A.; Bortnichuk, N. I.

TITLE: Investigation of the hydrodynamics of a melt in a vacuum arc furnace by a simulation method

16 14

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 11N10

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud., vyp. 1, 1965, 66-77

TOPIC TAGS: arc furnace, vacuum furnace, melt hydrodynamics

ABSTRACT: Current distribution in a liquid bath of a vacuum arc furnace has been studied, and the causes of metal rotation have been determined; they are: vertical magnetic field of solenoid and horizontal component of arc current. By measuring hydrodynamic pressures in a liquid-metal model, the pressure distribution over the diameter and depth of the bath were found and the melt rotation speeds were determined. The metal is agitated particularly vigorously in the anode-spot zone, some redistribution of pressures and velocities being effected by the forces of friction. From the viewpoint of intense mixing, in a solenoid-type design, the current-supply conductor to the upper flange of the crystallizer is more efficient because the horizontal current component is greater. Twelve figures. Bibliography of 4 titles. O. Provs [Translation of abstract]

SUB CODE: 13, 09

Card 1/1 UDC: 621.365.22.001.5:66.041.82:538.12:532.5:54-143

L 42058-66 EWT(m)/T DS

ACC NR: AR6013856 (A,N) SOURCE CODE: UR/0276/65/000/011/G017/G017

AUTHORS: Volokhonskiy, L. A.; Novitskiy, G. S.; Polin, I. V.

TITLE: Heat produced by an electrode used in an electric vacuum arc furnace with a lining

SOURCE: Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 11G140

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud. vyp. 1, 1965, 77-88

TOPIC TAGS: vacuum arc furnace, electrode, heat, heat balance, ELECTRODE PROPERTY

ABSTRACT: Formulas for calculating temperature fields of a working electrode have been derived in the course of this work and were verified experimentally. It was shown that the distribution of temperatures along the cross section of an electrode may be considered uniform through the entire period of melting. During the lining melting, the axial temperature field changes only insignificantly. The established heat regime is reached over a long period of time. It would be proper to heat the electrode to increase the speed of its melting. The formulas derived may be used to calculate the heat balance during melting in the lining. 11 illustrations. Bibliography of 4 titles. [Translation of abstract]

SUB CODE: 13

Card 1/1 af UDC: 621.365.2:66.047.2.036.61

ACC NR: AR6025710 SOURCE CODE: UR/0196/66/000/004/N002/N002

AUTHOR: Bortnichuk, N. I.; Volokhonvskiy, L. A.; Gogol', V. B.; Smolyanskiy, M. Ya.

TITLE: Investigation of stability of high-power arc discharge in vacuum

SOURCE: Ref. zh. Elektrotekhnika i energetika, Abs. 4N11

REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb. vyp. 46, 1965, 33-36

TOPIC TAGS: vacuum furnace, arc furnace, melting furnace

ABSTRACT: To improve the explosion safety of vacuum arc furnaces, a system of stabilization of arc discharge is necessary which would prevent the arc from throwing over to the crystallizer wall and would cope rapidly enough with such a throw-over if it occurs. Peculiarities of vacuum arc discharge were investigated which permits recommending measures for improving the explosion safety of vacuum arc furnaces withoutresorting to any basic change in their design. A solenoid constantly on during the melting and producing a 60-oe vertical field is recommended. To eliminate the solenoid fringe effect, an additional solenoid connected in series with the main one and producing a vertical field in the same direction should be placed at the bottom of the crystallizer, under its tray. To eliminate side discharges, a field of 100 oe is needed. Also, shorter arcs are recommended. Five figures. Bibliography of 3 titles. I. Kaganovskiy [Translation of abstract]

SUB CODE: 13, 09

Card 1/1 UDC: 621.365.91:537.523.5:533.5.001.5

ACC NR: AR6027498 SOURCE CODE: UR/0137/66/000/004/V051/V051

AUTHOR: Nikulin, A. A.; Bochkov, D. A.; Filimonova, M. A.; Artem'yev, V. D.; Volokhonskiy, L. A.

TITLE: Experimental study of ingot heat balance during the remelting of a consumable electrode

SOURCE: Ref. zh. Metallurgiya, Abs. 4V348

REF SOURCE: Elektrotermiya. Nauchn-tekhn. sb., vyp. 47, 1965, 42-43

TOPIC TAGS: vacuum arc furnace, heat balance

TRANSLATION: A special crystallizer with graded walls was constructed for the experiment. It was established that the heat transfer rate through the bottom plate in a vacuum arc furnace was $0.42 \cdot 10^6$ kcal/m^2·hr when the bottom of the crystallizer was covered with a plate. In the contact zone of the ingot, the heating rate on the walls of the crystallizer was about $(0.3\text{-}0.8) \cdot 10^6$ kcal/m^2·hr. During steady arc burning, the heating rate on the crystallizer walls above the level of the metal was about $(0.4\text{-}0.6) \cdot 10^6$ kcal/m^2·hr. Above the flux surface (during cycle without arcing), the heat transfer rate did not exceed $0.2 \cdot 10^6$ kcal/m^2·hr. In the stable regime, heat output to the crystallizer walls was produced by means of an ordinary water cooling system with water flow in the crystallizer. For a water velocity greater than 1 m/sec, a

UDC: 669:621.365.22-982.001.5

Card 1/2

ACC NR: AR6027498

cooling convection cycle can be produced without the danger of the heavy precipitation of hard salt. The specific heat transfer rate can be decreased somewhat by using lower water velocities, as well as by increasing the crystallizer wall thickness. 4 figures, 1 table.

SUB CODE: 11,13

Card 2/2

VOLOKHONSKIY, L.Sh.

Hydrobarometric resonance in an infinite channel. Trudy GOIN no.74:45-48 '63. (MIRA 16:7)

(Waves)

VOLOKHONSKIY, L.Sh.

Two-dimensional theory of the difference in the level of shallow seas. Trudy GOIN no.69:3-27 '62. (MIRA 15:11)
(Neva River estuary--Flood forecasting)

VOLOKHONSKIY, L.Sh.; STRUZER, L.R.

Rotary apparatus for measuring the velocity vector of continuous media. Trudy GGO no.108:64-72 '60. (MIRA 13:11)
(Flow meters)

VOLOKHONSKIY, L. Sh.

"Theory of Ground Freezing," Works of the Main Geophysical Observatory im. A. I. Voyekov, No. 19 (81), Leningrad, 1950.

VOLOKHONSKIY, L.Sh.

Stand for model studies of waves. Okeanologiia 1 no.6:1085-1088 '61. (MIRA 15:1)

1. Gosudarstvennyy okeanograficheskiy institut, Leningradskoye otdeleniye.

(Waves)

LADYZHENSKAYA, Ol'ga Aleksandrovna; VOLOKHONSKIY, L.Sh., red.; LUK'YANOV, A.A., tekhn. red.

[Mathematical aspects of the dynamics of a viscous incompressible fluid] Matematicheskie voprosy dinamiki viazkoi neszhimaemoi zhidkosti. Moskva, Izd-vo fiziko-matem. lit-ry, 1961. 203 p. (MIRA 15:2)

(Hydrodynamics)

VOLOKHONSKIY, L.Sh.

Dynamic processes in shallow seas. Trudy GCIN no.81:3-13 '64.
(MIRA 17:11)

VOLOKHONSKIY, L.V.

Theory of currents in shallow seas. Okeanologiia 4 no.5:921-922 '64 (MIRA 18:1)

VOLOKHONSKIY, N.V.

S/081/60/000/012(II)/C09/010
A006/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 12 (II), p. 500, # 48491

AUTHORS: Fedot'yev, N.P., Aleskovskiy, V.B., Vyacheslavov, P.M., Volokhonskiy, N.V., Romanova, D.L.

TITLE: Microhardness and the Degree of Purity of Electrolytic Cobalt Surfaces

PERIODICAL: Tr. Leningr. tekhnol. in-ta im. Lensoveta, 1959, No. 53, pp. 37-42

TEXT: The authors studied the effects on microhardness and electrolytic Co surface roughness of the thickness of the coating, pH of the electrolyte, D_c, temperature and the anode material. It is established that microhardness increases and roughness decreases with a reduced thickness of the deposit, pH raising from 3.5 to 5, increase in D_c to 2.5 amp/dm^2 and dropping temperature. An equation is derived on the correlation of the roughness degree with the microhardness of the cobalt deposits : $H = Kh^n$ where H is the microhardness,

Card 1/2

S/081/60/000/012(II)/009/010
A006/A001

Microhardness and the Degree of Purity of Electrolytic Cobalt Surfaces

kg/mm^2; h is the degree of roughness, μ (?), K and n are the coefficients depending on the nature on the metal deposited (K = 275 and n = 0.08 for Co). To obtain Co deposits with a high degree of roughness, the authors recommend a $CoSO_4 \cdot 7H_2O$ solution of 200 g/l; pH 2 - 3.5, temperature 60 - 70°C, D_c = 10-25 amp/dm^2, and a Pb anode.

The authors' resumé

Card 2/2

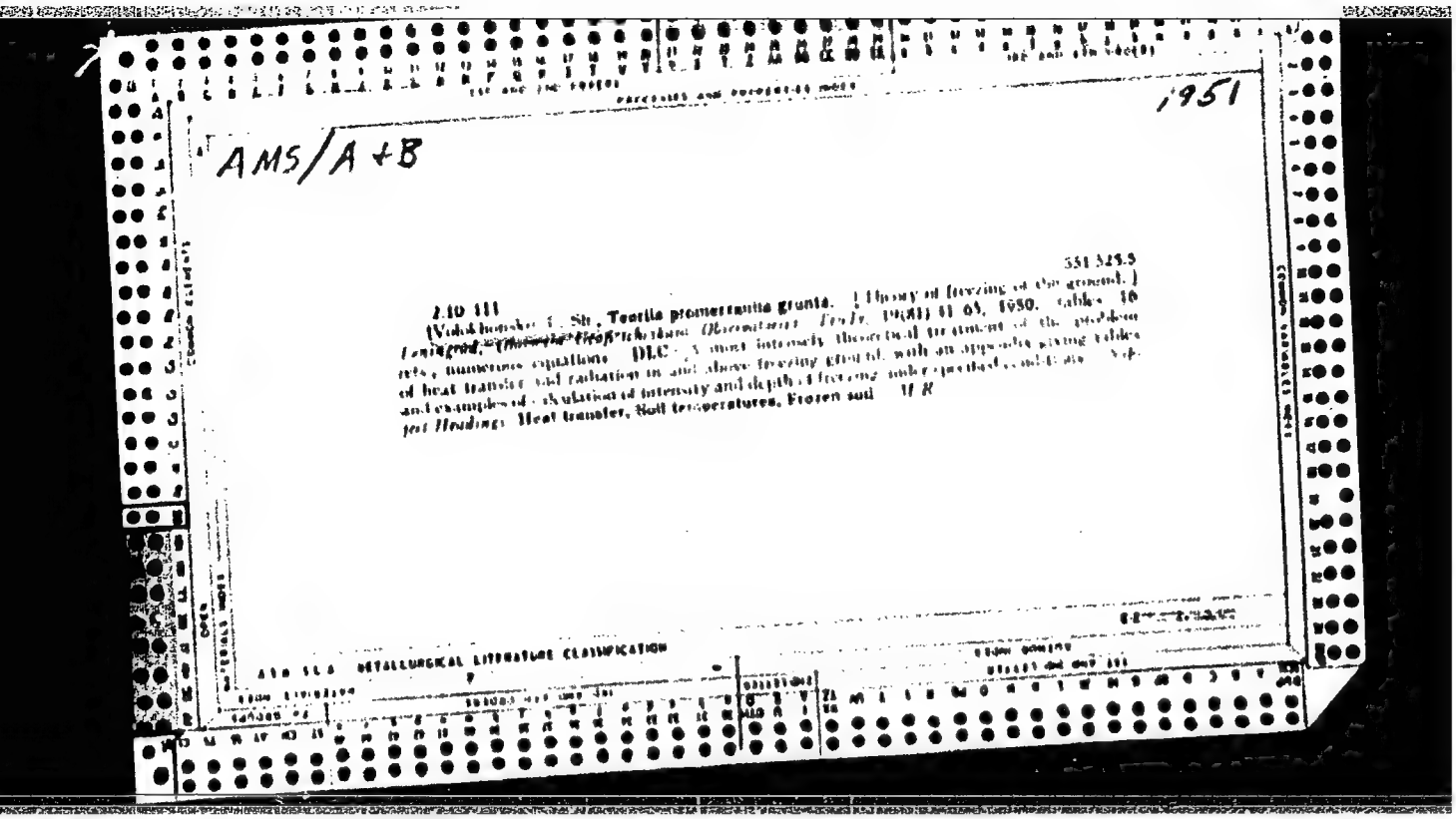
FEDOT'YEV, N.P.; ALESKOVSKIY, V.B.; VYACHESLAVOV, P.M.; VOLOKHONSKIY, N.V.; ROMANOVA, D.L.

Microhardness and degree of surface purity of electrolytic cobalt. Trudy LTI no.53:37-42 '59. (MIRA 14:3)
(Cobalt) (Electrolysis)

VOLOKHONSKIY, N.G., inzh.; GUREVICH, A.A., inzh.; KOMLEV, A.I., inzh.

New devices designed by the Planning and Design Institute of Overall Automation of the Food Industry. Mekh. i avtom. proizv. 17 no.5:25-27 My '63. (MIRA 16:6)

(Food industry) (Automation)



GLUSHKO, M.F., kand.tekhn.nauk; VOLOKONSKY, V.F., kand.tekhn.nauk

Bend of the wires of a cable on contact with the pulley. Izv. vys. ucheb. zav.; gor. zhur. 5 no.10:115-120 '62. (MIRA 15:11)

1. Khar'kovskiy gornyy institut. Rekomendovana kafedroy gornoy mekhaniki.
(Wire rope) (Strains and stresses)

VOLOKHOV, Aleksandr, A.

"Analysis of Some Forms of Reflex Activities in Embryogenesis." Zef. Zhur., Vol 33, No 3, 1947, p 361. Inst of Evolutionary Physiology and Pathalogy of Higher Nervous Activity imeni Adademician I. P. Pavlov, Acad Med Sci USSR.

SO: U- 4396

VOLOKHOV, A.A.

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Effect of decreased partial oxygen pressure on the function of the nervous system in ontogenesis; disturbance of the locomotor function in hypoxia. Fiziol.zh.SSSR 36 no.4:450-456 July-Aug 50. (CLML 20:4)

1. Institute of Evolutionary Physiology and Pathology of Higher Nervous Activity imeni Academician I.P.Pavlov of the Academy of Medical Sciences.

VOLOKHOV, A.A.

VOLOKHOV, A.A; OBRAZTSOVA, G.A.

Effect of decreased partial oxygen pressure on the function of the nervous system in ontogenesis; modification of respiratory function in hypoxia. Fizol.zh.SSSR 36 no.5:545-551 Sept-Oct 50. (CLML 20:4)

1. Institute of Evolutionary Physiology and Pathology of Higher Nervous Activity imeni Academician I.P. Pavlov of the Academy of Medical Sciences USSR.

2. Experiments conducted on rabbits.

VOLOKHOV, A. A.; OBRAZTSOVA, G. A.

Effect of exclusion of the visual apparatus in early ontogenesis on subsequent development of the reflex function. Fiziol. zh. SSSR 37 no. 4:453-460 July-Aug. 1951. (CIML 21:3)

1. Institute of Physiology imeni Academician I. P. Pavlov of the Academy of Medical Sciences USSR.

VOLOKHOV, A.A.

15th conference on the higher nervous function dedicated to 50th anniversary of the theory on conditioned reflexes. Zh. vysshei nerv. deiat. 2 no. 3:441-452 May-June 1952. (CLML 23:3)

VOLOKHOV, A. A.

Physiology - Societies, Etc.

Sixth session of the Scientific Council on the problems of physicological studies of Academician I. P. Pavlov. Vest. AN SSR, 22, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 1953. Unclassified.

VOLOKHOV, A. A.; KOBYSH, V.I.; NOVIKOVA, E.G.

Method for recording respiration by means of a thermistor. Zhur. vys.nerv.deiat. 6 no.2:342-345 Mr-Ap '56. (MLRA 9:8)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

(RESPIRATION, function tests
spirometry of laboratory animals during experimentation, appar. & method)
(LABORATORY ANIMALS
appar. & method for spirometry during experimentation

LEPESHINSKAYA, O.B., professor; USIYEVICH, M.A., professor; ASRATYAN, E.A., professor; SMIRNOV, A.I., professor; FILIPPOVICH, S.I., doktor meditsinskikh nauk; VOLOKHOV, A.A., professor; FILIMONOV, I.N., professor; SNYAKIN, P.G., professor; CHERNIGOVSKIY, V.N., professor; SPERANSKIY, A.D., akademik; DOLIN, A.O., doktor meditsinskikh nauk; KOTLYAREVSKIY, L.I., professor; NEGOVSKIY, V.A., professor; KASATKIN, N.I., professor; STEL'CHUK, I.V., professor; YEGOROV, B.G., professor; BAKULEV, A.N., professor; SMIRNOV, L.I., professor; USPENSKIY, V.N., redaktor; PETROV, S.P., redaktor.

[Teachings of I.P.Pavlov in theoretical and practical medicine] Uchenie I.P.Pavlova v teoreticheskoi i prakticheskoi meditsine. Vol.2. Moskva, Izd-vo Ministerstvo zdravookhraneniia SSSR, 1953. 611 p. (MLRA 7:3)

1. Deystvitel'nyy chlen AMN SSSR (for Lepeshinskaya, Chernigovskiy and Bakulev). 2. Chlen-korrespondent Akademii nauk SSSR (for Asratyan). 3. Chlen-korrespondent AMN SSSR (for Smirnov, Filimonov, Yegorov and L.I.Smirnov). 4. Moscow. TSentral'nyy institut usovershenstvovaniya vrachey. (Pavlov, Ivan Petrovich, 1849-1936) (Nervous system) (Physiology)

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"The Problem of Neuro-Humoral Relatiobships," Vest. Ak. Med. Nauk SSSR, No.2, pp 51-67, 1954

Translation Sum.No.447, 19 Aug 55

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(SLEEP, therapeutic use)

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pp. 205, Reports Given at the 20th International Congress of Physiologists, Brussels, 30 Jul-4Aug 56

Translation E-5368

VOLOKHOV, A.A.

VOLOKHOV, A.A., professor

Leon Abgarovich Orbeli; on his 75th birthday. Biul.eksp.biol. i med. (MIRA 10:10)
re no.6:109-113 Je '57.
(ORBELI, LEON ABGAROVICH, 1882-)

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VOLOKHOV, A.A.

Problems in the postnatal development of the nervous system in animals and man. Zhur.vys.nerv.deait. 7 no.1:168-172 Ja-F '57. (MIRA 10:10)
(NERVOUS SYSTEM)

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VOLOKHOV, A.A.

Leon Abgarovich Orbeli; on his 75th birthday. Zhur.vys.nerv.deiat. 7 no.4:629-636 Jl-Ag '57. (MIRA 10:12)

(ORBELI, LEON ABGAROVICH, 1882-)

VOLOKHOV, A.A.; PIGAREVA, Z.D.; PRONIN, L.A. (Moskva).

"The mammalian fetus; physiological aspects of development" from "Cold Spring Harbor Symposia on Quantitative Biology," v.19, 1954. Usp. sovr. biol. 43 no.2:238-253 Mr-Ap '57. (MLRA 10:6)
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VOLOKHOV, A. A.

"Development of Unconditioned and Conditioned Reflexes in Ontogenesis."
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Institute of Normal and Pathological Physiology, USSR Academy of Medical Sciences, Moscow.

VOLOKHOV, A.A.

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1. Laboratory of Comparative Ontogenesis of the Nervous System, Institute of Normal and Pathological Physiology, U.S.S.R. Academy of Science, Moscow.

(REFLEX, CONDITIONED,
relation to unconditioned reflexes in young animals (Rus))

(REFLEX,
unconditioned, relation to conditioned reflexes in young animals (Rus))

VOLOKHOV, A.A.; NIKITINA, G.M.; NOVIKOVA, Ye.G.

Development of autonomic phases of orientation defense and conditioned reflexes during the ontogeny of a comparative series of animals. Zhur.vys.nerv.deiat. 9 no.3:420-428 My-Je '59. (MIRA 12:9)

1. Laboratory of Comparative Ontogenesis of the Nervous System, Institute of Normal and Pathological Physiology, U.S.S.R. Academy of Medical Sciences, Moscow.
(HEART - physiology)
(RESPIRATION - physiology)
(REFLEX, CONDITIONED)
(REFLEX)

VOLOKHOV, A. A.; KRYLOVA, O. A.; NIKISHINA, T. M.; SHILYAGINA, N. N. (Moskva)

K voprosu o stanovlenii i razvitii retikulyarnoy formatsii stvola golovnogo mozga v ontogeneze.

report submitted for the First Moscow Conference on Reticular Formation, Moscow, 22-26 March 1960.

VOLOKHOV, A.A.; OBRAZTSOVA, G.A.

Effect of removal of the cerebral cortex and subcortical formations of the brain on the course of hypoxic phenomena at different periods of ontogeny. Mat. po evol. fiziol. 4:100-104 '60. (MIRA 13:10)

(ANOXEMIA) (BRAIN)

KUPALOV, P.; VOLOKHOV, A.; VORONIN, L.

Influence of V.I.Lenin's ideas on the development of the theory of higher nervous activity. Zhur. vys. nerv. deiat. 10 no.2: 161-166 Mr-Ap '60. (MIRA 14:5)
(LENIN, VLADIMIR IL'ICH, 1870-1924)

VOLOKHOV, A.A.

Evolution of the functions and metabolism of the higher segments of the central nervous system. Zhur.vys.nerv.deiat. 10 no.6:933-938 N-D '60. (MIRA 14:1)

(BRAIN)

PARIN, V.V., otv. red.; VOLOKHOV, A.A., zam. otv. red.; NIKITINA, G.M., red.; PILIPENKO, V.I., red.; CHUMAK, V.I., red.; BYKOV, V.D., red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Problems in the physiology and pathology of the central nervous system of man and animals in ontogenesis]Voprosy fiziologii tsentral'noi nervnoi sistemy cheloveka i zhivotnykh v ontogeneze; sbornik nauchnykh rabot. Moskva, Medgiz, 1961. 223 p. (MIRA 15:8)

1. Akademiya meditsinskikh nauk SSSR, Moscow.
(NERVOUS SYSTEM)

VOLOKHOV, A.A.

The development of functions of analyzers in ontogeny.

Report submitted to the Czech. Medical Congress, Medical Society of J.E, Purkyne, Prague, Czech. 12-17 Nov 1962

VOLOKHOV, A.A.; SHILYAGINA, N.N.

Stereotaxic brain atlas of young rabbits. Zhur. vys. nerv. deiat. 16 no. 1:145-184 Ja-F '66 (MIRA 19:2)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy Instituta mozga AMN SSSR. Submitted August 15, 1965.

L 57477-65
ACCESSION NR: AP5014192

UR/0385/65/001/001/0084/0097
612.822.3+612.825.54+612.826+612.84

AUTHOR: Volokhov, A. A.; Shilyagina, N. S.

TITLE: Characteristic ontogenetic features in the functional development of the cortical and subcortical divisions of the visual analyzer

SOURCE: Zhurnal evolutsionnoy biokhimii i fiziologii, v. 1, no. 1, 1965, 84-97

TOPIC TAGS: visual analyzer, cortex, brain, subcortex, brain wave, central nervous system

ABSTRACT: Two forms of spontaneous electrical [illegible] low-amplitude [illegible] with a frequency of [illegible]

Card 1/3

reticular formation is similar to that in the adult animal. Spontaneous electrical activity in the subcortical divions of the visual analyzer undergo [illegible] basic changes as in the visual cortex but sooner, i.e. it increases [illegible] becomes stabilized in frequency. At 7-8 days of age, evoked potentials [illegible] photic stimulation are first recorded in the visual cortex, but not [illegible] visual stimulus. [illegible] cortex, [illegible] appropriation response through the [illegible] figures.

Card 2/3

L 57477-65

ACCESSION NR. AP5014192

ASSOCIATION: Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy Instituta mozga AMN SSSR, Moscow (Laboratory of Comparative Ontogeny of the Nervous System, Institute of the Brain, AMN SSSR)

SUBMITTED: 17Aug64 ENCL: 00 SUB CODE: LS

NO REF SOV: 017 OTHER: 029

Card 3/3

VOLOKHOV, A.A.; SHILYAGINA, N.N.

Determination of steretaxic coordinates of subcortical brain formations in developing animals. Zhur. vys. nerv. deiat. 15 no.1:176-184 Ja-F '65. (MIRA 18:5)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy systemy Instituta mozga AMN SSSR.

VOLOGDIN, A.G.

Concerning the article by A.IU.Rozanov "New representatives of archaeocyathids of the family Dokidocyathidae." Sov.geol. 5 no.9:146-147 S '62. (MIRA 15:11)
(Archaeocyathidae) (Rozanov, A.IU.)

SKLOVSKIY, A.M.; VOLOKH, A.G.

Breaks in Devonian sedimentation in the North Caspian oil- and gas-bearing basin. Sov.geol. 7 no.2:72-85 F '64. (MIRA 17:3)

VOLOKHOV, A.N., inzh. (Mozdok)

The improved "ESOKS B-2" reed mover. Gidr. i mel. 17 no.5: 45-47 My '65. (MIRA 18:7)

VOLOKHOV, A.N.; VOROB'YEV, A.A.; FEDOROV, M.F.; CHERTOV, A.G., dots.; DUBOV, V.P., dots., retsenzent; ARTEMOVA, T.I., red.; TUPITSYNA, L.A., red.

[Problems in physics with examples of their solution and reference materials] Zadachnik po fizike s primerami resheniia zadach i spravochnymi materialami. Petrozavodsk, Rosvuzizdat, 1963. 399 p. (MIRA 17:6)

1. Moskovskiy poligraficheskiy institut (for Dubov).

VOLOKHOV, A. N.

Opytnoe opredelenie momentov inerstii. Moskva, 1936. 84 p., illus., tables. (TSAGI. Trudy, no. 285)

Bibliography: p. 81

Summary in English

Title tr.: Experimental determination of moments of inertia.

QA911.M65 no. 285

SO: Aeronautical Sciences and Aviaition in the Soviet Union. Library of Congress. 1955

VOLOKHOV, A. N.

O prodol'noi dinamicheskoi ustoichivosti samoletov. Moskva, 1937. 35 p., diagrs. (TSAGI. Trudy, no. 336)

Title tr.: On the longitudinal dynamic stability of airplanes.

QA911.M65 no. 336

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

VOLOKHOV, A. N.

Raznostnye metody chislennogo integrirovaniia obyknovennykh diferentsial'nykh uravnenii. Moskva, 1937. 51 p., diagrs. (TSAGI. Trudy, no. 314)
Summary in English.
Bibliography: p. 47.
Title tr.: Methods of differences of numerical integrations of ordinary differential equations-

QA911.M65 no. 314

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

38182. VOLOKHOV, A. S.

Nekotoryye dannyye o khimicheskom sostave i pitatel'noy tsennosti kormovykh rasteniy zimnikh pastbishch "chernyye zemli". (Referat). Sov. Zootekhniya, 1949, No 8, s. 107-09

VOLOKHOV, A.T., inzh.

Investigating the hydraulic drive of hoisting machinery braking systems. Ugol'.prom. no.1:56-58 Ja-F '62. (MIRA 15:8)

1. Spetsial'noye konstruktorskoye byuro zavoda im. 15-letiya Leninskogo kommunisticheskogo soyuza molodezhi Ukrainy.
(Hydraulic brakes) (Mine hoisting)

VOLOKHOV, A.T., gornyy inzh.

Spring disc braking system for hoists. Ugol' Ukr. 4 no.1: 32 Ja '60. (MIRA 13:5)
(Hoisting machinery--Brakes)

SVIRIDENKO, V.V.; VOLOKHOV, A.V.

Display of corn at the Exhibition of Achievements of the National Economy of the U.S.S.R. Zhivotnovodstvo 23 no.3: 40-44 Mr '61. (MIRA 17:1)

VOLOKHOV, A.Yu.; SAGAN', I.I.

Pump for viscous liquids. Sakh.prom. 33 no.3:35-37 Mr '59.
(MIRA 12:4)

1. Khar'kovskiy sovnarkhoz (for Volokhov). 2. Kiyevskiy tekhnologicheskiy institut pishchevoy promyshlennosti im. Mikoyana (for Sagan').
(Pumping machinery)

VOLOKHOV, A.YU.

OSADCHIY, A.I., VOLOKHOV, A.Yu.

Dynamic balancing of centrifugal drums. Sakh. prom. 30 no.12:28-30 D '56. (MLRA 10:1)

1. Velike-Oktyabr'skiy sakharnyy zavod.
(Centrifuges)

KHOMCHUK, G.A.; VOLOKHOV, A.Yu.

Installation for the drying of sugar in a fluidized bed. Sakh.prom. 37 no.7:18-22 Jl '63. (MIRA 16:7)

1. Khar'kovskiy sovet narodnogo khozyaystva.
(Sugar--Drying)
(Fluidication)

ACC NR: AP6036696 (A) SOURCE CODE: UR/0170/66/011/005/0582/0586

AUTHOR: Volokhov, G. M.

ORG: Institute of Heat and Mass Transfer, AN BSSR, Minsk (Institut teplo i massobmena AN BSSR)

TITLE: Determination of the temperature diffusion coefficient in problems with combinations of boundary conditions

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 11, no. 5, 1966, 582-586

TOPIC TAGS: heat diffusion, thermal diffusion, heat conductivity

ABSTRACT: A unified method for solving temperature diffusion problems with combinations of boundary conditions is developed and confirmed experimentally. Simple relations for the temperature diffusion coefficients for plate samples with combined first and second type boundary conditions are obtained from the solutions. It is shown, specifically, that the characteristic quantity (rate of change of heating) remains constant when combinations of boundary conditions are used. This method is also applicable to spherical geometrics when appropriate forms of solutions are used. To check the accuracy and validity of the method, testing of discs and square plates were performed. The test equipment and procedures permitting the choice of a variety of boundary conditions are described. The typical deviation of the measured coefficient of

UDC: 536.2.01

Card 1/2

ACC NR: AP6036696

diffusivity from those reported in the literature ranged from 3 to 6%. Maximum deviation from the value obtained using the computational technique developed by the author did not exceed 10 to 12%. This deviation is ascribed to the fact that the solutions used in this work were for one-dimensional problems and that contact resistance to temperature distribution occurred in the test equipment. This method is shown to be more suitable for studies of thermophysical properties than the methods presently available. Orig. art. has: 9 formulas.

SUB CODE: 20,13/ SUBM DATE: 13Jun66/ ORIG REF: 004

Card 2/2

VOLOKHOV, G.M.; IVASHKEVICH, E.V.; SURKOV, G.A.

Nonstationary method for determining thermal characteristics of nonmetallic materials. Inzh.-fiz. zhur. 7 no.12:39-44 D '64 (MIRA 18:2)

1. Institut teplo- i massoobmena AN BSSR, Minsk.

L 08580-67 EWT(1) SCTB DD/HD

ACC NR: AP6011274 SOURCE CODE: UR/0413/66/000/006/0133/0133

33
B

AUTHORS: Karpokin, V. V.; Rybalko, A. P.; Volokhov, I. I.

ORG: none

TITLE: A self-contained gas-heat pressurized suit. Class 61, No. 180098 [announced by Central Scientific Research Laboratory for High-Altitude Rescue Matters (Tsentral'naya nauchno-issledovatel'skaya laboratoriya po gornospasatel'nomu delu)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 6, 1966, 133

TOPIC TAGS: space suit, pressure suit, protective clothing

ABSTRACT: This Author Certificate presents a self-contained gas-heat protective space suit. The outfit consists of a suit of heat-resistant fabric with a rigid cuirass and helmet. A tank with a liquid gas, for example, oxygen, connects with the internal cavity of the space suit (see Fig. 1). The design provides normal breathing without regeneration of the exhaled air. An evaporation rate regulator is mounted on the tank. The regulator is a sylphon bellows connecting with the valve of the liquid gas supply. The inner cavity of the sylphon bellows connects with the atmosphere which is enclosed in the casing which connects with the space suit cavity. In order to automatically maintain a given temperature in the space suit a thermorelay is mounted on the tank. The thermorelay is designed in the form of an increased

UDC: 614.895.5

Card 1/2

L 08580-67

ACC NR: AP6011274

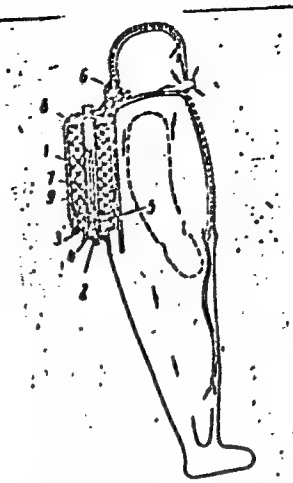


Fig. 1. 1 - tank with liquid oxygen; 2 - evaporation regulator; 3 - valve for the liquid gas supply; 4 - sylphon bellows; 5 - casing of the sylphon bellows; 6 - thermorelay; 7 - central perforated tube; 8 - perforated network; 9 - gas discharge tube

supply of gas connected with the valve by the sylphon bellows. This gas supply is filled with a liquid having a low boiling temperature, for example, Freon. To increase the space factor of the tank and insure takeoff of the gas with any position of the space suit, a central perforated tube and a perforated distributing network are mounted on the tank. A gas discharge tube is located inside the perforated tube. The upper rim of this discharge tube is positioned in such a way that any plane passing through the center of the discharge tube divides the tank into two parts equal in volume. Orig. art. has: 1 figure.

SUB CODE: 06, 22/ SUBM DATE: 31Jul64

Card 2/2

VOLOKHOV, I.M.

Ultrabasic breccia in central Tuva. Trudy Gor.-geol.inst.zap.-Sib.fil.AN SSSR no.17:99-116 '56. (MIRA 13:5)
(Tuva Autonomous Province--Breccia)

VOLOKHOV, I.M.

3(5) PHASE I BOOK EXPLOITATION SOV/1485

Pinus, Georgiy Vladimirovich, Valeriy Alekseyevich Kuznetsov and Ivan Mikhaylovich Volokhov

Giperbazity Altaye-Sayanskoy skladchatoy oblasti (Ultrabasic Rocks of the Altay-Sayanskaya Folded Region) Moscow, Izd-vo AN SSSR, 1958. 293 p. 1,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologii i geofiziki.

Resp. Ed.: A.P. Lebedev; Ed. of Publishing House: G.G. Mergasov; Tech. Ed.: P.S. Kashina.

PURPOSE: The textbook is intended for exploration geologists engaged in the search for minerals genetically related to ultrabasic rocks.

COVERAGE: This is the first summary treatment of the ultrabasic rocks of the Altay-Sayan folded region. The book describes the various ultrabasic zones, the distribution of both zones and massifs, the petrographic characteristics of rocks and related formations, as well as the petrochemical characteristics of the complex. In addition to

Card 1/5

citing the current opinions of other authorities, the writers offer their own concepts on magmatics and the origin of the ultrabasic rocks of the region. There are 59 diagrams, 14 tables, and 213 references of which 184 are Soviet, 25 English, 2 German, 1 Dutch, and 1 French.

TABLE OF CONTENTS:

Card 3/5

Ultrabasic rocks (Cont.) SOV/1485

Card 4/5

AVAILABLE: Library of Congress

MM/sfm
4-30-59

VOLOKHOV, I.M.; IVANOV, V.M.

Lysaya gabbro-pyroxenite-peridotite massif. Geol. i geofiz. no.11: 74-85 '61. (MIRA 15:2)

1. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Sayan Mountains--Geology)

VOLOKHOV, I.A., Cand Geol-Min Sci--(diss) "~~Hyperbasic rocks~~ Hyperbasites of Salair, their location in the Altay-Sayanskaya hyperbasite province, and certain questions relating to the problem of hyperbasites ~~rocks~~ in general." Tomsk, 1958. 15 pp (Min of Higher Education USSR. Tomsk Order of Labor Red Banner Polytech Inst im S.M.Kirov), 100 copies (KL,46-58,139)

-19-

VOLOKHOV, I.M.

PINUS, G.V., KUZNETSOV, V.A., VOLOKHOV, I.M.; LEONT'YEV, L.I., doktor geologo-mineralogicheskikh nauk, otvetstvennyy redaktor; LADYCHUK, L.P., redaktor izdatel'stva; ASTAF'YEVA, G.A., tekhnicheskiy redaktor.

[Hyperbasic rock of Tuva] Giperbazity Tuvy. Moskva, Izd-vo Akad. nauk SSSR, 1955. 133 p. (Trudy Tuvinskoi kompleksnoi ekspeditsii, no.2) (MLRA 10:5)

(Tuva Autonomous Province--Petrology)

LUTSEVICH, P.A.; MONGALEV, G.F.; MIKHALEVICH, N.G.; ZINOVICH, K.F.; SAFRONENKO, A.P.; KLIMENKOV, P.A.; GAYDUKEVICH, N.M.; SILIN, M.S.; BRAZOVSKIY, P.V.; KOVPAK, M.D.; MELESHKEVICH, O.A.; KAMENTSEVA, V.N.; KULIKOVSKIY, A.V.; TARAYKOVICH, P.I.; ALEYNIKOV, G.A.; SHMULEVICH, Sh.S.; GRACHEVA, K.I.; NIKOLAYEVA, Yu.N.; VOLOKHOV, M.A.; DOMASHEVICH, O., red.; KARKLINA, E., red.; ZUYKOVA, V., tekhn. red.

[Manual for livestock raisers] Spravochnik zhivotnovoda. 2., dop. i perer. izd. Minsk, Gos.izd-vo sel'khoz.lit-ry BSSR, 1963. 462 p. (MIRA 16:8)

1. Glavnyy zootekhnik Upravleniya nauki Ministerstva sel'skogo khozyaystva Belorusskoy SSR (for Safronenko).
(Stock and stockbreeding)

VOLOKHOV, M. I.

USSR/Mining Oct 48
Dust
Bibliography

"Some Critical Remarks on S. Ya. Kheyfits' Books,"
M. I. Volokhov, Mining Engr, 1¼ pp

"Ugol'" No 10

Lists five books by Kheyfits, including three on problems of dust in mines. Volokhov states that: (1) Kheyfits is often wrong. (2) Books lack unity, and recommendations are often contradictory. (3) Same data is included in several books.

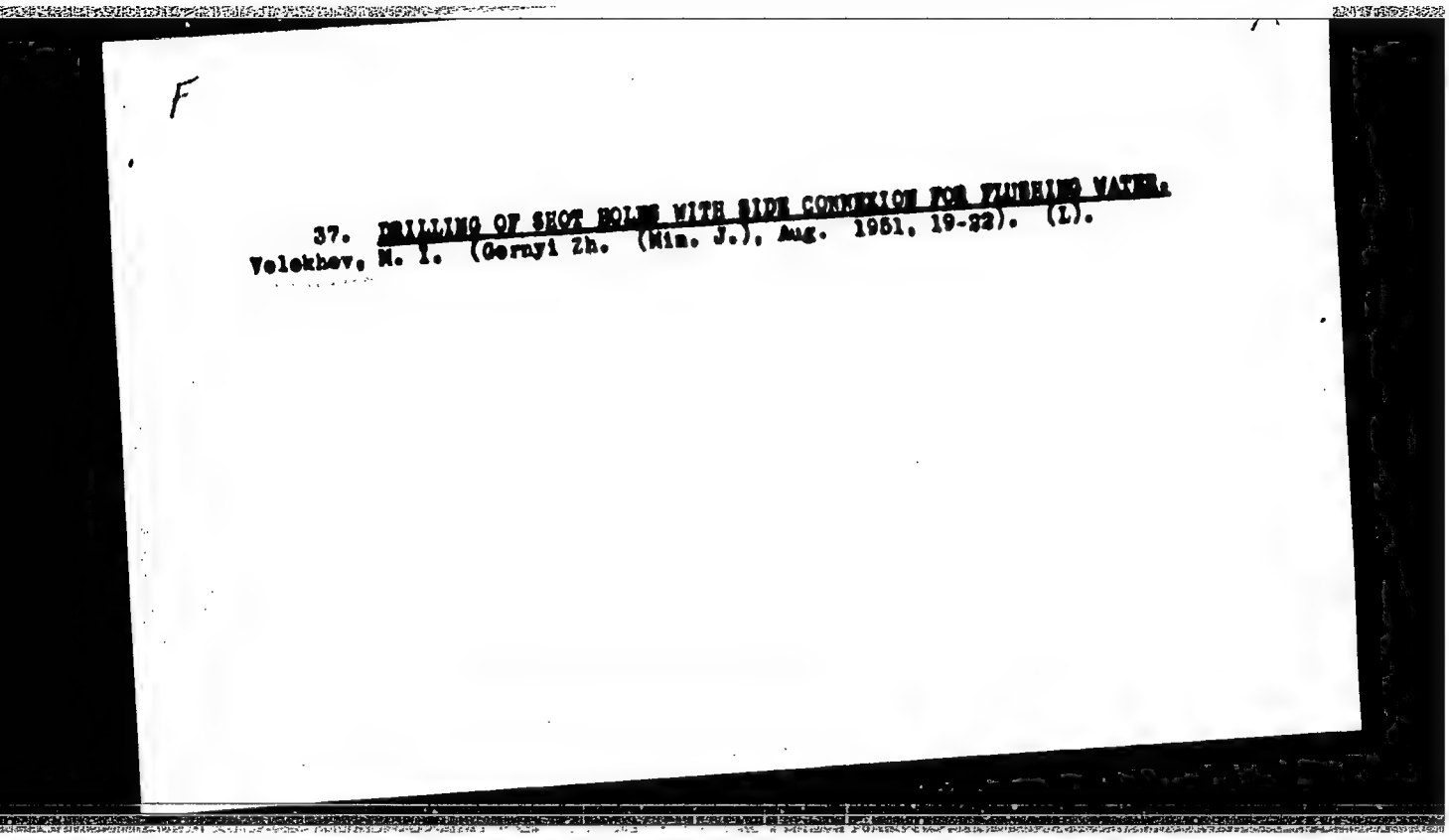
32/49T68

VOLOKHOV, M.I.

TORSKIY,P.N.; VOLOKHOV,M.I.; KEKIN,A.A.; RADCHENKO,G.A.; BRICHKIN,A.V .,prof., redakt ; KOROKINA,Z.P., tekhnicheskiy redaktor

[Principal problems in controlling mine dust] Osnovnye voprosy bor'by s rudnichnoi pyl'iu Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR, 1951. 162 p. (MLRA 9:2)

1. Chlen-korrespondent Akademii nauk KazSSR (for Brichkin)
(Mine dusts)



F

37. DRILLING OF SHOT HOLES WITH SIDE CONNECTION FOR FLUSHING WATER.
Volokhov, M. I. (Gornyi Zh. (Min. J.), Aug. 1951, 19-22). (L).

VOLOKHOV, M.I., kand.tekhn.nauk

Device for measuring the dust in air. Vest.AN Kazakh.SSR 16 no.1 93 Ja '60. (MIRA 13:5)
(Dust--Measurement)

VOLOKHOV, M.I., kandidat tekhnicheskikh nauk.

Axial and lateral water feed in wet boring. Bor'ba s sil. 1:47-52 '53. (MLRA 7:10)

1. Institut gornogo dela Akademii nauk Kazakhskoy SSR.
(BORING)

VOLOKHOV, M. I.

USSR/Mining - Mining operations

Card 1/1 : Pub. 123 - 5/13

Authors : Volokhov, M. I.

Title : Development and introduction of measures to combat dust in mining enterprises in Kazakhstan

Periodical : Vest. AN Kaz. SSR, 11/2, 49-57, Feb 1954

Abstract : An account is given of joint action by members of the Kazakh Academy and representatives of mining enterprises in Kazakhstan in the study of methods to combat dust in mining operations. At first, drilling openings and washing out the mine with water was found to be unsatisfactory. After careful calculations by engineers of the number of openings and quantity of water, the method was improved. A study is made of the types of equipment used for this work. Seven Russian references (1949-1953). Tables; drawing.

Institution : ....

Submitted : ....

VOLOKHOV, M.I., kandidat tekhnicheskikh nauk.

Role of Academician A.A.Skochinskii in solving problems of combatting silicosis. Vest.AN Kazakh.SSR 11 no.7:20-22 Jl '54. (MLRA 7:11)
(Skochinskii, Aleksandr Aleksandrovich, 1874-)
(Lungs--Dust diseases)

VOLOKHOV, M.I., kandidat tekhnicheskikh nauk; MISYUNAS, L.K.; BOGDANOVA, L.S.

Measuring dust in the air with an electronic onimeter. Bor'ba s sil. 2:235-242 '55. (MLRA 9:5)

1. Institut gornogo dela Akademii nauk Kazakhskoy SSR.
(DUST)

Volokhov, M.N.

VOLOKHOV, M.N.; REVYAKINA, L.S.

Effect of certain factors on results of dust sampling by the count method. Trudy Inst. gor. dela AN Kazakh. SSR 1:113-126 '56.
(Mine dusts) (MIRA 11:1)

VOLOKHOV, M.I.; MISYUNAS, L.K.

Study of certain factors affecting readings of the electronic konimeter. Vest.AN Kazakh.SSR 12 no.6:97-105 Je '56. (MLRA 9:8)

1. Predstavlena akademikom AN KazSSR A.S. Popovym.
(Mine dusts--Measurement) (Electronic instruments)